

FIG.2

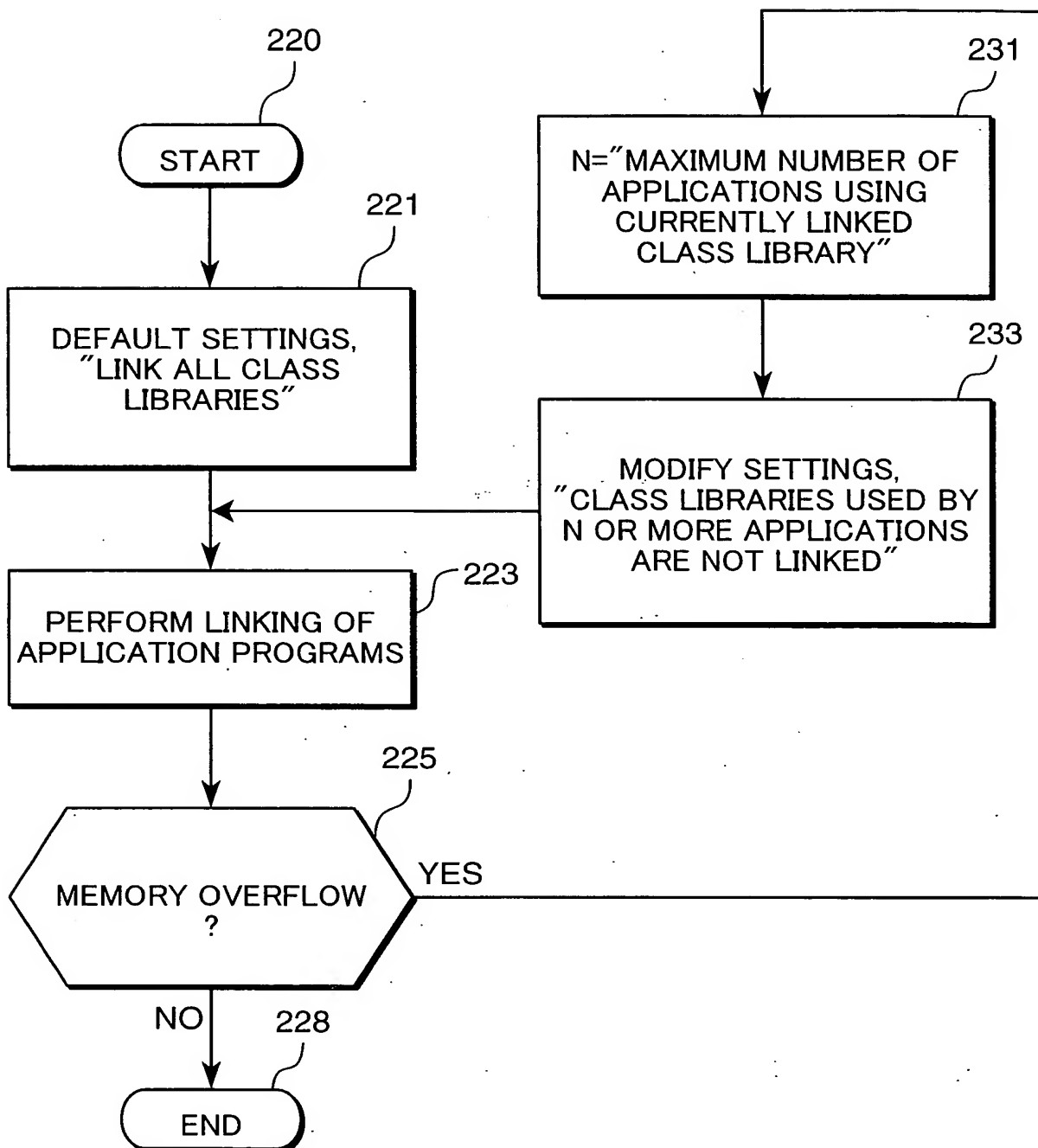


FIG.3

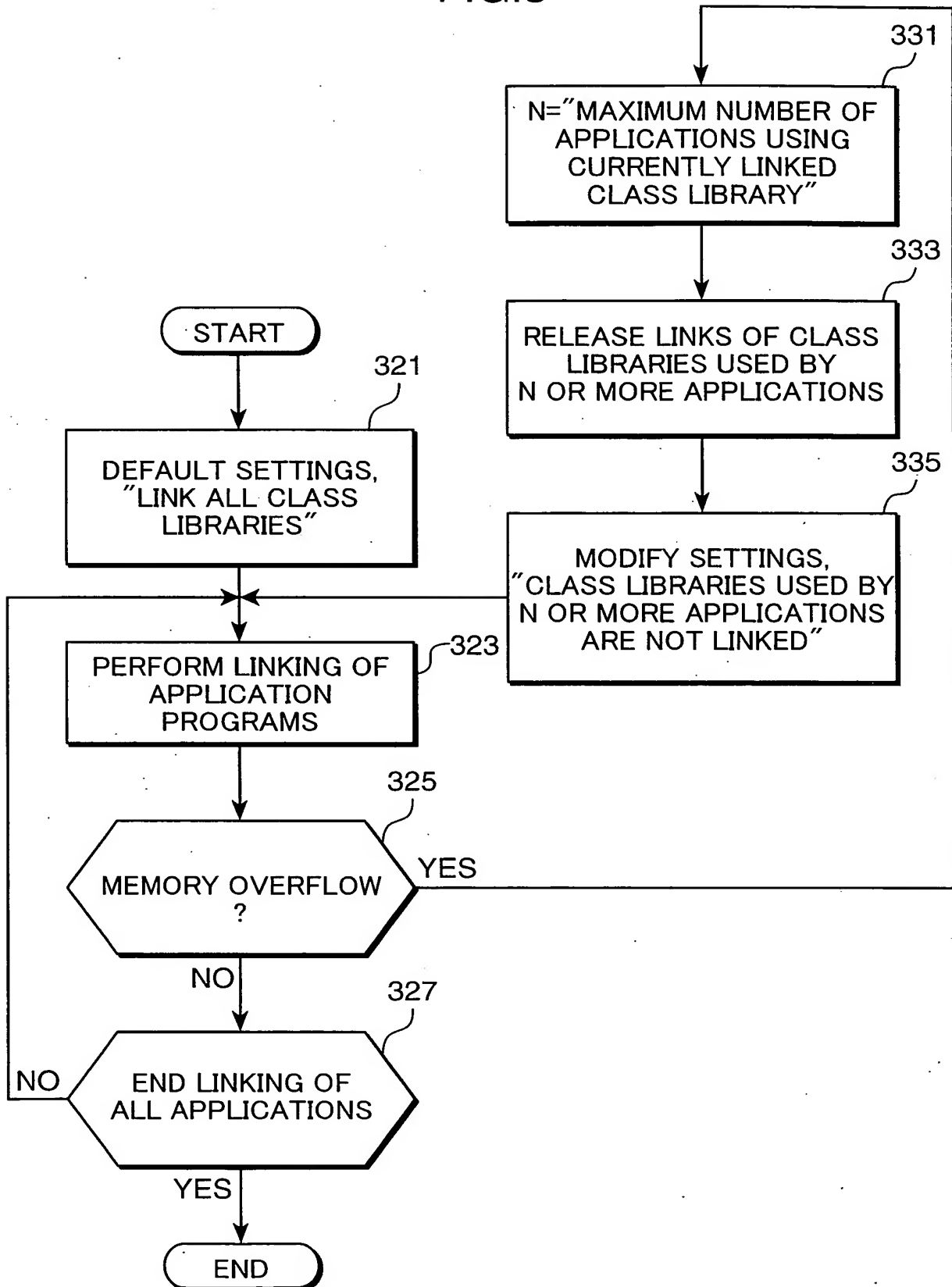


FIG.4A

(STEP 1)
PERFORM LINKING
OF APPLICATION
PROGRAM 1

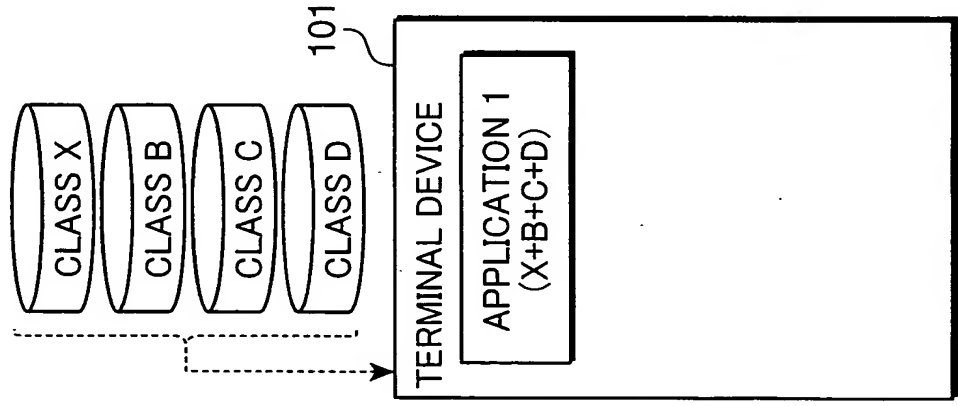


FIG.4B

(STEP 2)
PERFORM LINKING
OF APPLICATION
PROGRAM 2

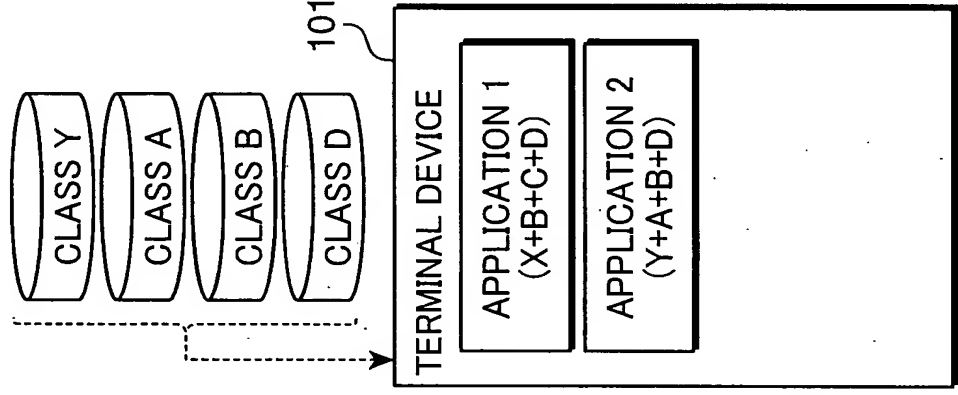


FIG.4C

(STEP 3)
PERFORM LINKING
OF APPLICATION
PROGRAM 3

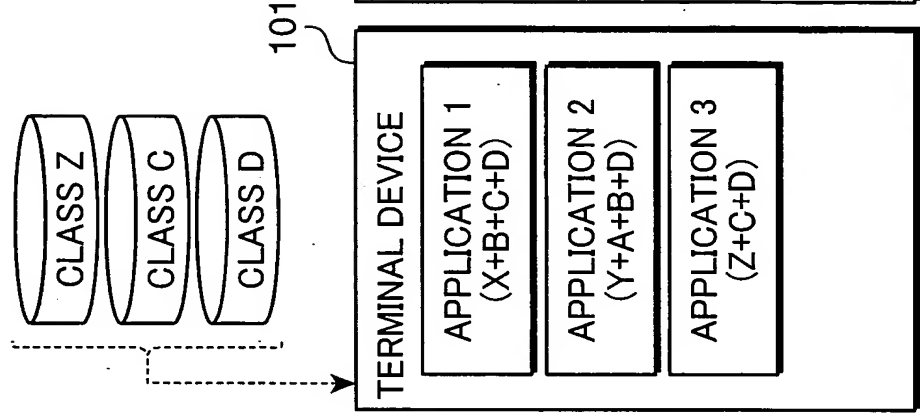


FIG.4D

(STEP 4)
RELEASE LINKS
TO CLASS LIBRARY D
FOR EACH
APPLICATION
PROGRAM

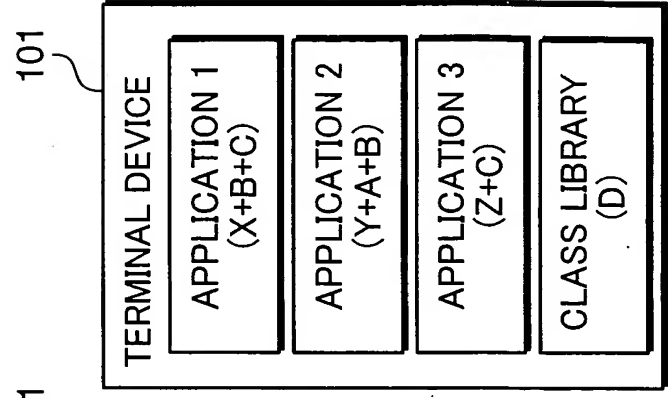


FIG.5A

STEP 3

| | | | |
|--------------------------|--------------------------|------------------------|---|
| APPLICATION 1 X+B+C+D | APPLICATION 2 Y+A+B+D | APPLICATION 3 Z+C+D | TOTAL NUMBER OF CLASS FILES = 11 NUMBER OF RUNTIME LINKS = 0 |
|--------------------------|--------------------------|------------------------|---|

FIG.5B

STEP 4

| | | | |
|--|------------------------|----------------------|--|
| APPLICATION 1 X+B+C | APPLICATION 2 Y+A+B | APPLICATION 3 Z+C | TOTAL NUMBER OF CLASS FILES = 9 NUMBER OF RUNTIME LINKS = 3 |
| CLASS LIBRARY D USED BY THREE APPLICATIONS | | | |

FIG.5C

STEP 5

| | | | |
|--|------------------------|----------------------|--|
| APPLICATION 1 X+B+C | APPLICATION 2 Y+A+B | APPLICATION 3 Z+C | TOTAL NUMBER OF CLASS FILES = 7 NUMBER OF RUNTIME LINKS = 7 |
| CLASS LIBRARIES B,C USED BY TWO APPLICATIONS | | | |
| CLASS LIBRARY D USED BY THREE APPLICATIONS | | | |

FIG. 6

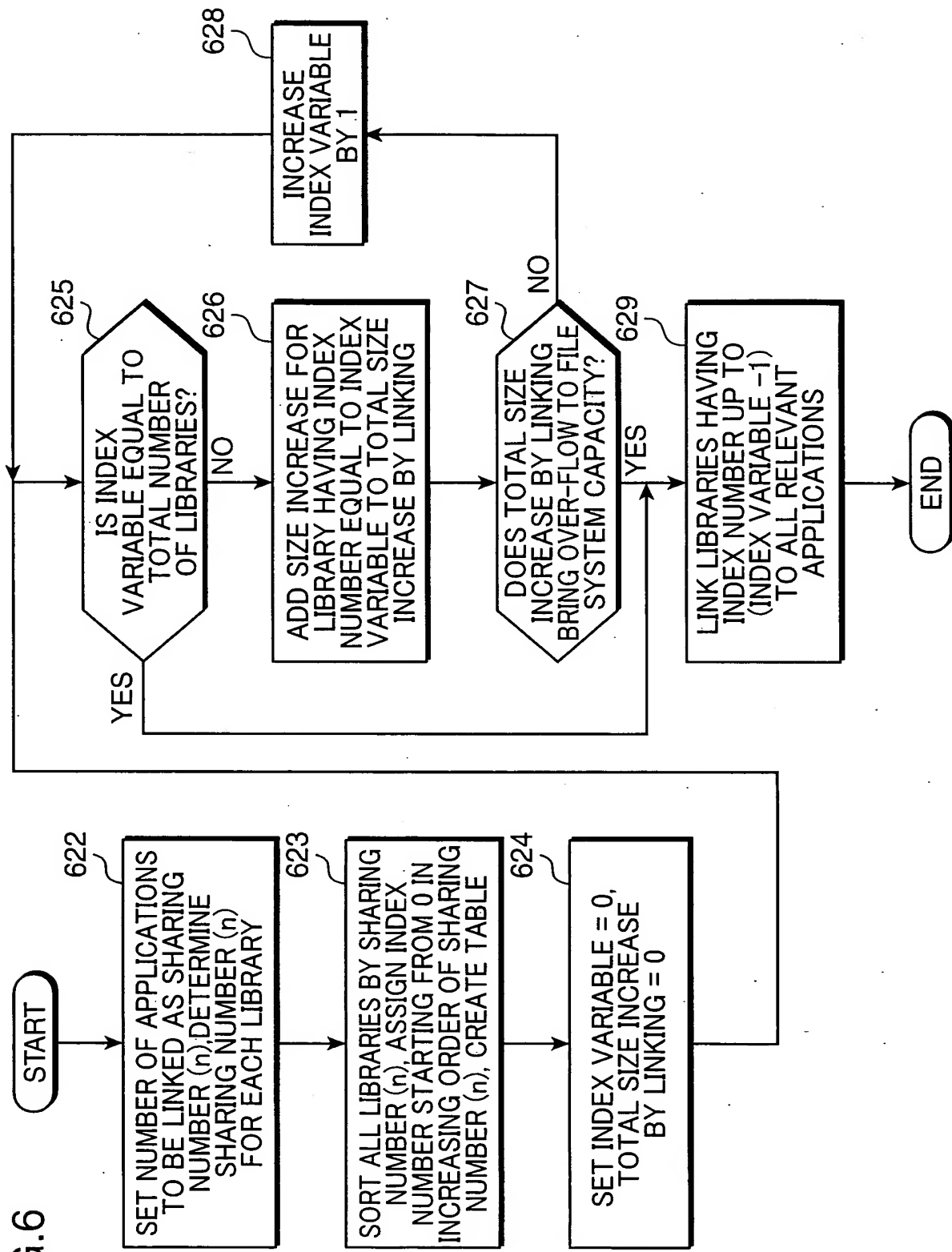


FIG.7A

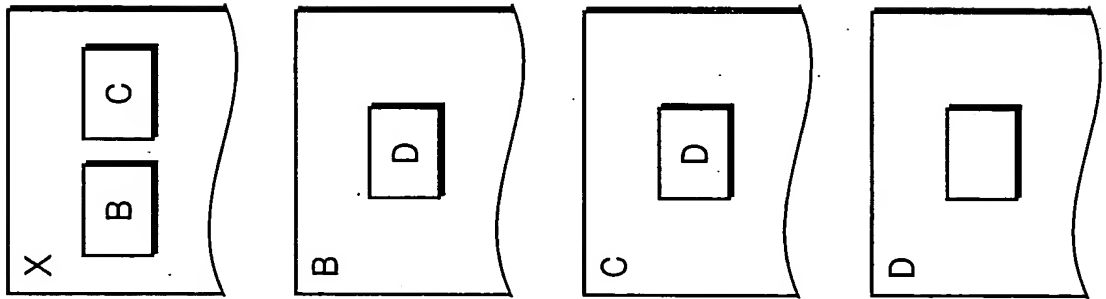


FIG.7B

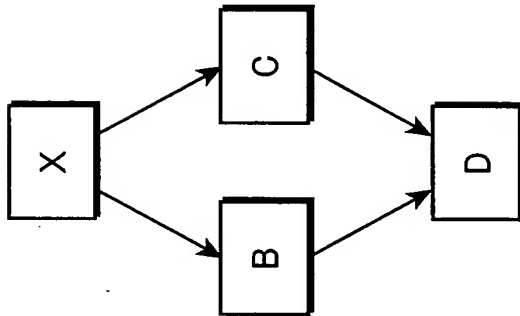


FIG.7C

| | X | Y | Z | SHARING NUMBER (n) |
|---|---|---|---|-----------------------|
| A | x | O | x | 1 |
| B | O | O | x | 2 |
| C | O | x | O | 2 |
| D | O | O | O | 3 |

FIG.8

| SHARING NUMBER (n) | INDEX NUMBER | LIBRARIES FOR LINKING |
|-----------------------|--------------|--------------------------|
| 1 | 0 | A |
| 2 | 1 | B |
| 2 | 2 | C |
| 3 | 3 | D |

FIG.9

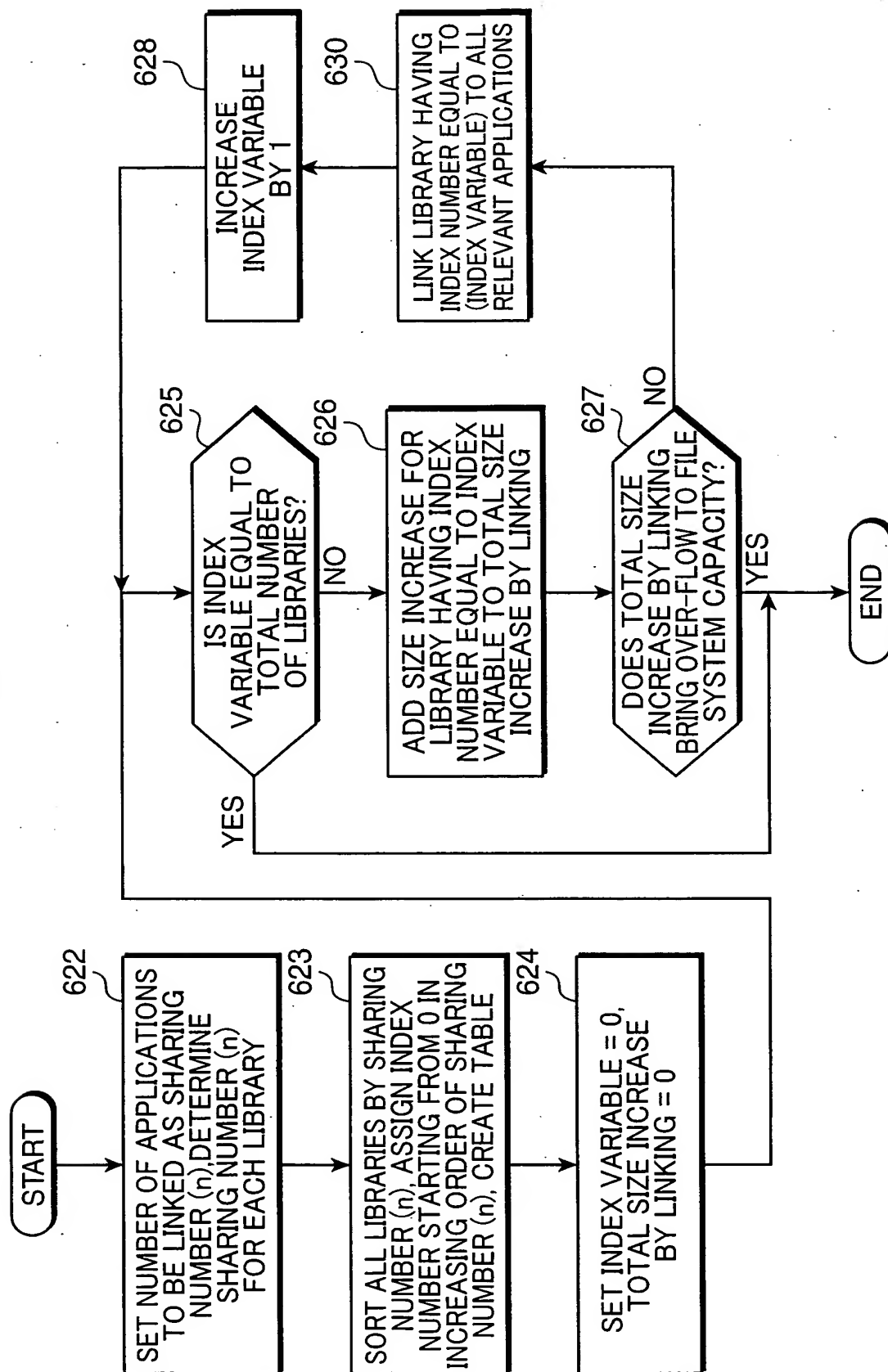


FIG.10

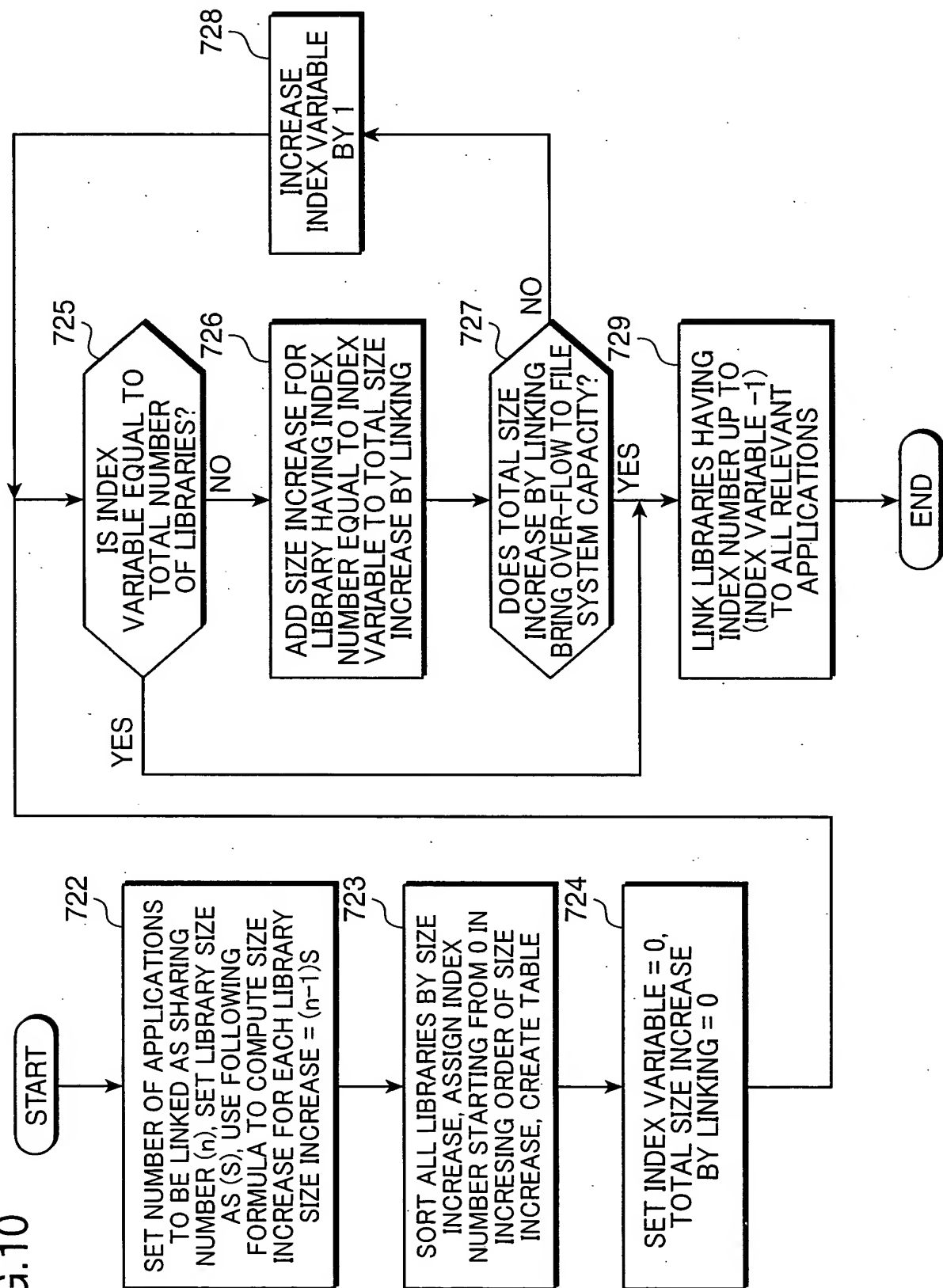


FIG.11

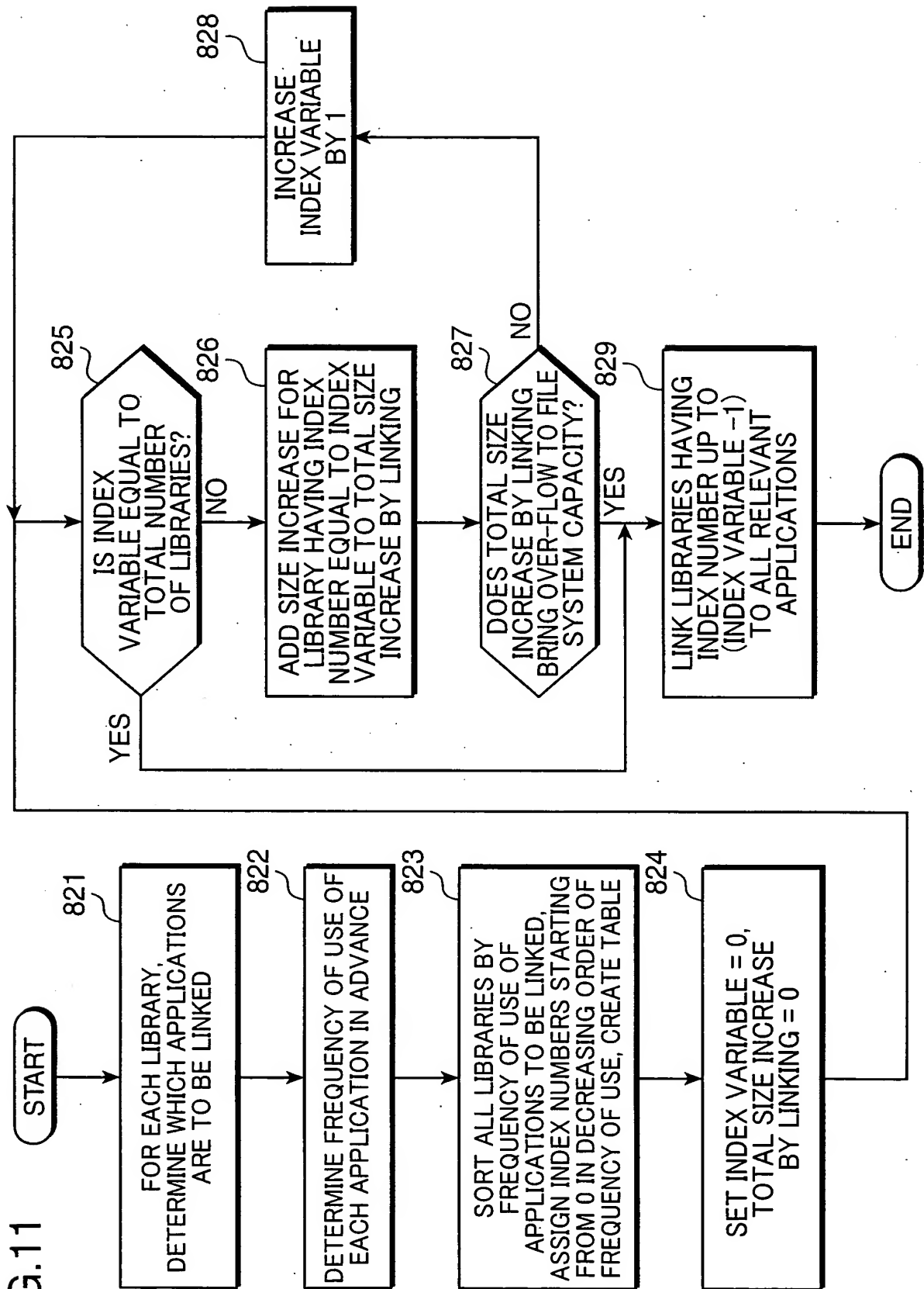


FIG.12

